

CIVIL QUALITY CONSULTANTS & ENGINEERS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)
An ISO 9001: 2015 Certified Company
NABL Accredited As Per ISO/IEC : 17025:2005 Laboratory



CQCE/BBMP/NMK/W.No.37/2020-21

Date : 11.09.2020

GRADATION FOR WMM MORTH TABLE-400-11

Client
Agency
Name of Work

: Executive Engineer, RR Nagar Division, BBMP, Bangalore.
: Sri. N M Krishnamurthy, Contractor, Bangalore.
: Comprehensive development of Roads, drains and Footpath in Yeshwanthpura ward No.37 under PACKAGE-2019-20 RRN-DIV-(11), BBMP, Bangalore.

Date of Testing : 11.09.2020
Material Type : Wet Mix Macadam

Oven Dry Wt (gm): 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	379	379	3.8	96.2	95-100
22.4	2368	2747	27.5	72.5	60-80
11.2	2250	4997	50.0	50.0	40-60
4.75	1735	6732	67.3	32.7	25-40
2.36	1430	8162	81.6	18.4	15-30
0.600	688	8850	88.5	11.5	8-22
0.075	435	9285	92.9	7.2	0-8

Note:

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2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

Asst. Executive Engineer
Yeshwanthpura Sub-Division
Bruhat Bangalore Mahanagara Palike

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Office & Laboratory : # 133, Bhuvaneshwarinagar, Dodda Basti Main Road, Bangalore - 560 056.
e-mail: civilqualityconsultants@gmail.com Ph: 080-23240644 / Mob: 8553518550

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CQCL/BBMP/NMK/W.No.37/2020-21

GRADATION FOR WMM MORTH TABLE-400-II

Date : 11.09.2020

Client : Executive Engineer, RR Nagar Division, BBMP, Bangalore.
Agency : Sri. N M Krishnamurthy, Contractor, Bangalore.
Name of Work : Comprehensive development of Roads, drains and Footpath in Yeshwanthipura ward No.37 under PACKAGE 2019-20 RRN-DIV (II), BBMP, Bangalore.
Date of Testing : 11.09.2020
Material Type : Wet Mix Macadam

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Oven Dry Wt (gm): 10000	
				Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	336	336	3.4	96.6	95-100
22.4	2368	2704	27.0	73.0	60-80
11.2	2280	4984	49.8	50.2	40-60
4.75	1845	6829	68.3	31.7	25-40
2.36	1356	8185	81.9	18.2	15-30
0.600	662	8847	88.5	11.5	8-22
0.075	526	9373	93.7	6.3	0-8

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CQCE/BBMP/NMK/W/No.37/2020-21

GRADATION FOR WMM MORTH TABLE-400-II

Date : 11.09.2020

Client
Agency
Name of Work

: Executive Engineer, RR Nagar Division, BBMP, Bangalore.
: Sri. N M Krishnamurthy, Contractor, Bangalore.

: Comprehensive development of Roads, drains and Footpath in Yeswanthpura ward No.37
under PACKAGE 2019-20 RRN DIV (11), BBMP, Bangalore.

Date of Testing : 11.09.2020

Material Type : Wet Mix Macadam

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Oven Dry Wt (gm): 10000	
				Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	379	379	3.8	96.2	95-100
22.4	2356	2735	27.4	72.7	60-80
11.2	2365	5100	51.0	49.0	40-60
4.75	1785	6885	68.9	31.2	25-40
2.36	1356	8241	82.4	17.6	15-30
0.600	815	9056	90.6	9.4	8-22
0.075	401	9457	94.6	5.4	0-8

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GRADATION FOR WMM MORTH TABLE-400-11

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Name of Work

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: Comprehensive development of Roads, drains and Footpath in Yeshwanthpura ward No.37
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Date of Testing : 11.09.2020
Material Type : Wet Mix Macadam

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Oven Dry Wt (gm): 10000	
				Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	289	289	2.9	97.1	95-100
22.4	2356	2645	26.5	73.6	60-80
11.2	2252	4897	49.0	51.0	40-60
4.75	1865	6762	67.6	32.4	25-40
2.36	1345	8107	81.1	18.9	15-30
0.600	988	9095	91.0	9.1	8-22
0.075	356	9451	94.5	5.5	0-8

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Date of Testing : 11.09.2020

Material Type : Wet Mix Macadam

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Oven Dry Wt (gm):		Spec.Limits
			Cumulative % of Retained	Cumulative % of Passing	
53	0	0	0	100	100
45	389	389	3.9	96.1	95-100
22.4	2436	2825	28.3	71.8	60-80
11.2	2365	5190	51.9	48.1	40-60
4.75	1958	7148	71.5	28.5	25-40
2.36	1245	8393	83.9	16.1	15-30
0.600	736	9129	91.3	8.7	8-22
0.075	415	9544	95.4	4.6	0-8

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Date of Testing : 11.09.2020
Material Type : Wet Mix Macadam

Oven Dry Wt (gm): 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	332	332	3.3	96.7	95-100
22.4	2358	2690	26.9	73.1	60-80
11.2	2245	4935	49.4	50.7	40-60
4.75	1869	6804	68.0	32.0	25-40
2.36	1352	8156	81.6	18.4	15-30
0.600	850	9006	90.1	9.9	8-22
0.075	265	9271	92.7	7.3	0-8

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Lab No. EQCE/BBMP/NAIK/W.No.37/2020.21

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

10.09.2020

Client	Executive Engineer, RR Nagar Division, BBMP, Bangalore.
Agency	Sri. N M Krishnamurthy, Contractor, Bangalore.
Name of Work	Comprehensive development of Roads, drains and Footpath in Yeshwanthpura ward No.37 under PACKAGE-2019-20 RRN-DIV-(11), BBMP, Bangalore.
Technical Reference	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	10.09.2020

Result : Flakiness Index = 11.68%

Elongation Index = 13.16%

Result : Combined Flakiness & Elongation index 24.84%

Comments:

Maximum allowable Flakiness & Elongation Index for Wet Mix Macadam is 30%

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10.09.2020

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Technical Reference	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	10.09.2020

Result : Flakiness Index = 12.85%

Elongation Index = 14.36%

Result : Combined Flakiness & Elongation index 27.21%

Comments:

Maximum allowable Flakiness & Elongation Index for Wet Mix Macadam is 30%

Note:

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Technical Reference	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	10.09.2020

Result : Flakiness Index = 11.98%

Elongation Index = 13.12%

Result : Combined Flakiness & Elongation index 25.10%

Comments:

Maximum allowable Flakiness & Elongation Index for Wet Mix Macadam is 30%

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Technical Reference	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	10.09.2020

Result : Flakiness Index = 12.98%

Elongation Index = 14.26%

Result : Combined Flakiness & Elongation index 27.24%

Comments:

Maximum allowable Flakiness & Elongation Index for Wet Mix Macadam is 30%

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M. S. R.

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Asst. Executive Engineer
Yeshwanthpura Sub-Division
Bruhat Bangalore Mahanagara Palike

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